

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

#6  
(152)

In re application of:

Syed M. Mohiuddin and  
Daniel E. Hilleman

Serial No.: 330,156

Filed: March 29, 1989

MAY 30 1989

For: NOVEL METHOD OF MYOCARDIAL IMAGING

L E T T E R

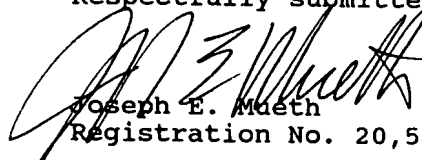
Commissioner of Patents & Trademarks  
Washington, D. C. 20231

Attention: Licensing and Review

Sir:

Responsive to your communication mailed April 17, 1989,  
enclosed is the Declaration of the above-identified  
applicants.

Respectfully submitted,

  
Joseph E. Mueth  
Registration No. 20,532

333 S. Grand Av., #3700  
Los Angeles, CA 90071

(213) 688-7407

I hereby certify that this correspondence  
is being deposited with the United States  
Postal Service as first class mail in an  
envelope addressed to: Commissioner of  
Patents and Trademarks, Washington, D.C.  
20231 on May 25, 1989

By 

Date May 25, 1989



FILING RECEIPT



UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office  
ASSISTANT SECRETARY AND COMMISSIONER  
OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231

SERIAL NUMBER	FILING DATE	GRP ART UNIT	FIL FEE REC'D	ATTORNEY DOCKET NO.	DRWGS	TOT CL	IND CL
07/330,156	03/29/89	223	\$ 302.00	167109CIP	0	11	4

JOSEPH E. MUETH  
333 S. GRAND AVE., 37TH FLR.  
LOS ANGELES, CA 90071

Receipt is acknowledged of the patent application identified herein. It will be considered in its order and you will be notified as to the examination thereof. Be sure to give the U.S. SERIAL NUMBER, DATE OF FILING, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this transmittal.

Applicant(s)

SYED M. MOHIUDDIN, OMAHA, NE; DANIEL E. HILLEMAN, OMAHA, NE.

CONTINUING DATA AS CLAIMED BY APPLICANT-  
THIS APPLN IS A CIP OF 07/231,217 06/11/88

\* SMALL ENTITY \*

TITLE  
NOVEL METHOD OF MYOCARDIAL IMAGING

PRELIMINARY CLASS: 424

**RECEIVED**

**MAY 22 1989**

**JOSEPH E. MUETH**

(see reverse)

**RECEIVED****APR 20 1989****JOSEPH E. MUETZ****UNITED STATES DEPARTMENT OF COMMERCE****Patent and Trademark Office**Address: COMMISSIONER OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231

SERIAL NUMBER	FILING DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO.
07/330,156	3-29-89	Daniel F. Hilleman et al	167-109CTP

Jean Fleming  
333 South Grand Avenue 37th Floor  
Los Angeles, CA 90071

EXAMINER	
ART UNIT	PAPER NUMBER
	2

DATE MAILED: 4-17-89

*Due 5/31/89***IF NO RESPONSE TO THIS NOTICE IS RECEIVED WITHIN FORTY-FIVE DAYS, A  
FORMAL REQUIREMENT WILL BE ISSUED**

The subject matter of this application appears to:

☒ be "useful in the production or utilization of special nuclear material or atomic energy" as recited in 42 U.S.C. 2182 (Department of Energy (DOE)).☐ "have significant utility in the conduct of aeronautical and space activities" as recited in 42 U.S.C. 2457 (National Aeronautics and Space Administration (NASA)).

Accordingly, no patent can issue on this application unless applicant(s) file a statement (under oath or in the form of a declaration as provided by 37 CFR 1.68) setting forth (1) the full facts concerning the circumstances under which the invention was made and conceived and (2) the relationship (if any) of the invention to the performance of any work under any contract or other arrangement with the Agency(ies) noted above. On the reverse side of this form is an example of an acceptable format for this statement. The language appearing in paragraphs III and/or IV of the example *must* appear if applicant is attempting to establish that no relationship (under item 2 above) exists.

If the invention disclosed in this application was developed under a contract, grant or cooperative agreement between the Agency indicated above and a person, small business or non-profit organization and rights to the invention have been determined by specific reference to 35 U.S.C. 202 in the contract, grant or cooperative agreement, then applicant need not submit the statement described above. Instead, applicant may file a verified statement (under oath or in the form of a declaration, 37 CFR 1.68) setting forth the information required by 35 U.S.C. 202(c)(6).

IF NO STATEMENT HAS BEEN RECEIVED WITHIN FORTY-FIVE DAYS OF THE MAIL DATE INDICATED ABOVE, a formal requirement for statement will then be issued. No provision is made for extension of the statutory thirty-day period for response to the formal requirement and the penalty for failure to file an acceptable and timely statement is abandonment of the application. Therefore, applicants are strongly encouraged to submit a statement at this time in order to avoid the issuance of a formal requirement.

IT IS IMPORTANT TO NOTE that the statement must accurately represent the property rights situation of the claimed invention if and when the application is found allowable. Thus, if during prosecution before the examiner, the claimed invention is so altered or the property rights situation so changed as to impact the accuracy of a statement submitted earlier, a supplemental statement must be filed. Failure to submit such additional information where appropriate may be considered a false representation of material facts and render the patent owner vulnerable to loss of patent rights and other sanctions as set forth in the statutes. The PTO will not review allowed applications for this possibility. The responsibility for complying with the statutes rests with the applicants.

Any questions regarding this requirement should be directed to Licensing and Review at (703) 557-3011.

**PLEASE DIRECT ALL COMMUNICATIONS RELATING TO THIS MATTER TO THE  
ATTENTION OF LICENSING AND REVIEW**

I (We) SYED H. MOHIUDDIN

DANIEL F. HILLEMAN

citizens of \_\_\_\_\_

U. S. A.

residing at Omaha Nebraska

Omaha, Nebraska

declare:

That I (we) made and conceived the invention described and claimed in patent application:

Serial Number 330,156 filed in the United States of America on March 29, 1989  
titled NOVEL METHOD OF MYOCARDIAL IMAGING

(Check and complete either I or II below)

(Check III and/or IV below as appropriate)

☐ I. (For Inventors Employed by an Organization) That I (we) made and conceived this invention while employed by \_\_\_\_\_. That the invention is related to the work I am (we are) employed to perform and was made within the scope of my (our) employment duties; That the invention was made during working hours and with the use of facilities, equipment, materials, funds, information and services of \_\_\_\_\_. Other relevant facts are \_\_\_\_\_  
(name of employer)

That to the best of my (our) knowledge and belief:

☒ III. The invention was not made or conceived in the course of, or in connection with, or under the terms of any contract, subcontract or arrangement entered into with or for the benefit of the United States Atomic Energy Commission or its successors: Energy Research and Development Administration or the Department of Energy.

—AND/OR—

That to the best of my (our) knowledge and belief (and/or) based upon information provided by \_\_\_\_\_ of \_\_\_\_\_:

☒ IV. The invention was not made (conceived or first actually reduced to practice) under nor is there any relationship of the invention to the performance of any work under any contract of the National Aeronautics and Space Administration.

—OR—

☒ II. (For Self-Employed Inventors) That I (we) made and conceived this invention on my (our) own time using only my (our) own facilities, equipment, materials, funds, information and services. Other relevant facts are \_\_\_\_\_

The undersigned inventor(s) declare further that all statements made herein of his or her (their) own knowledge are true and that all statements made on information and belief are believed to be true and further that these statements are made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Inventor's Signature: Syed H. Mohiuddin

Post Office Address: 12531 Shamrock Road Omaha, Nebraska 68154

Date: 5-22-89

Inventor's Signature: Daniel E. Hilleman

Post Office Address: 1424 South 133rd St., Omaha, Nebraska 68144

Date: 5-23-89

The following is an example of an acceptable property rights statement. Statements of this type are, of course, only suitable for situations in which NO Agency funds or other considerations were involved in the making or conception of the invention. While this example is in the form of a declaration, a sworn document is equally acceptable.

I (We) SYED M. MOHIUDDIN DANIEL F. HILLEMAN  
citizens of U. S. A.  
residing at Omaha Nebraska Omaha, Nebraska

declare:

That I (we) made and conceived the invention described and claimed in patent application:

Serial Number 330,156 filed in the United States of America on March 29, 1989  
titled NOVEL METHOD OF MYOCARDIAL IMAGING

(Check and complete either I or II below)

☐ I. (For Inventors Employed by an Organization) That I (we) made and conceived this invention while employed by \_\_\_\_\_. That the invention is related to the work I am (we are) employed to perform and was made within the scope of my (our) employment duties; That the invention was made during working hours and with the use of facilities, equipment, materials, funds, information and services of \_\_\_\_\_. Other relevant facts are \_\_\_\_\_  
(name of employer)

That to the best of my (our) knowledge and belief (and/or) based upon information provided by \_\_\_\_\_ of \_\_\_\_\_:

—OR—

☐ II. (For Self-Employed Inventors) That I (we) made and conceived this invention on my (our) own time using only my (our) own facilities, equipment, materials, funds, information and services. Other relevant facts are \_\_\_\_\_

(Check III and/or IV below as appropriate)

That to the best of my (our) knowledge and belief:

☐ III. The invention was not made or conceived in the course of, or in connection with, or under the terms of any contract, subcontract or arrangement entered into with or for the benefit of the United States Atomic Energy Commission or its successors: Energy Research and Development Administration or the Department of Energy.

—AND/OR—

☐ IV. The invention was not made (conceived or first actually reduced to practice) under nor is there any relationship of the invention to the performance of any work under any contract of the National Aeronautics and Space Administration.

The undersigned inventor(s) declare further that all statements made herein of his or her (their) own knowledge are true and that all statements made on information and belief are believed to be true and further that these statements are made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Inventor's Signature: Syed M. Mohiuddin

Post Office Address: 12531 Shamrock Road Omaha, Nebraska 68154

Date: \_\_\_\_\_

Inventor's Signature: Daniel E. Hilleman

Post Office Address: 1424 South 133rd St., Omaha, Nebraska 68144

Date: \_\_\_\_\_

JOSEPH E. MUETH  
333 S. GRAND AVE., 37TH FLR.  
LOS ANGELES, CA 90071

RECEIVED

MAY 09 1969

APPLICATION 2241

All fees must be paid pursuant  
to the fee schedule  
published in 14 P.R. 2807  
effective April 17, 1969.

000  
04 2480

DATE WAIVED

# NOTICE TO FILE MISSING PARTS OF APPLICATION— FILING DATE GRANTED

A filing date has been granted to this application. However, the following parts are missing.

If all missing parts are filed within the period set below, the total amount owed by applicant as a  
☐ large entity, ☒ small entity (verified statement filed), is \$ \_\_\_\_\_.

- ☐ The statutory basic filing fee is: ☐ missing; ☐ insufficient. Applicant as a ☐ large entity,  
☐ small entity, must submit \$ \_\_\_\_\_ to complete the basic filing fee and MUST ALSO SUBMIT  
THE SURCHARGE AS INDICATED BELOW.
- ☐ Additional claim fees of \$ \_\_\_\_\_ as a ☐ large entity, ☐ small entity, including any required  
multiple dependent claim fee, are required. Applicant must submit the additional claim  
fees or cancel the additional claims for which fees are due. NO SURCHARGE IS REQUIRED  
FOR THIS ITEM.
- ☒ The oath or declaration:  
☒ is missing.  
☐ does not cover items omitted at the time of execution.  
An oath or declaration in compliance with 37 CFR 1.63, identifying the application by the  
above Serial Number and Filing Date is required. A SURCHARGE MUST ALSO BE  
SUBMITTED AS INDICATED BELOW.
- ☐ The oath or declaration does not identify the application to which it applies. An oath or  
declaration in compliance with 37 CFR 1.63 identifying the application by the above  
Serial Number and Filing Date is required. A SURCHARGE MUST ALSO BE SUBMITTED  
AS INDICATED BELOW.
- ☐ The signature to the oath or declaration is: ☐ missing; ☐ a reproduction; ☐ by a person  
other than the inventor or a person qualified under 37 CFR 1.42, 1.43, or 1.47. A properly  
signed oath or declaration in compliance with 37 CFR 1.63, identifying the application by  
the above Serial Number and Filing Date is required. A SURCHARGE MUST ALSO BE  
SUBMITTED AS INDICATED BELOW.
- ☐ The signature of the following joint inventor(s) is missing from the oath or declaration:  
\_\_\_\_\_. Applicant(s) should provide, if possible an oath or declaration  
signed by the omitted inventor(s), identifying this application by the above Serial Number  
and Filing Date. A SURCHARGE MUST ALSO BE SUBMITTED AS INDICATED  
BELOW.
- ☐ The application was filed in a language other than English. Applicant must file a verified  
English translation of the application and a fee of \$28.00 under 37 CFR 1.17(h), unless this  
fee has already been paid NO SURCHARGE UNDER 37 CFR 1.16(e) IS REQUIRED FOR  
THIS ITEM.
- ☐ A \$20.00 processing fee is required for returned checks. (37 CFR 1.21(m)).
- ☐ Your filing receipt was mailed in error because check was returned.
- ☐ Other:

A Serial Number and Filing Date have been assigned to this application. However, to avoid  
abandonment under 37 CFR 1.53(d), the missing parts and fees identified above in items 1 and  
3-6 must be timely provided ALONG WITH THE PAYMENT OF A SURCHARGE OF \$110.00,  
for large entities or \$60.00 for small entities who have filed a verified statement claiming such  
status. The surcharge is set forth in 37 CFR 1.16(e). Applicant is given ONE MONTH FROM  
THE DATE OF THIS LETTER, OR TWO MONTHS FROM THE FILING DATE of this  
application, WHICHEVER IS LATER, within which to file all missing parts and pay any fees.  
Extensions of time may be obtained by filing a petition accompanied by the extension fee under  
the provisions of 37 CFR 1.136(a).

Direct the response to, and any questions about, this notice to the undersigned, Attention:  
Application Branch.

070 05/08/89 330156 1 205 60.00 CA  
A copy of this notice **MUST** be returned with response.

For: Manager, Application Branch  
(703) 557-3254

FORM PTO-1533 (REV. 7-87)

COPY TO BE RETURNED WITH RESPONSE

## For Office Use Only

<input type="checkbox"/> 102	<input type="checkbox"/> 202
<input type="checkbox"/> 103	<input type="checkbox"/> 203
<input type="checkbox"/> 104	<input type="checkbox"/> 204
<input type="checkbox"/> 105	<input type="checkbox"/> 205

RECEIVED

MAY 1 1989

UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark OfficeAddress: COMMISSIONER OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231

JOSEPH E. MUETH

FILING DATE

FIRST NAMED APPLICANT

ATTY DOCKET NO.

07/330,156

03/29/89

HILLEMANN

0

167109CIP

JOSEPH E. MUETH  
333 S. GRAND AVE., 37TH FLR.  
LOS ANGELES, CA 90071All fees must be paid pursuant  
to the new fee schedule  
published at 54 F.R. 6893  
effective April 17, 1989.

000

04/28/89

DATE MAILED:

NOTICE TO FILE MISSING PARTS OF APPLICATION—  
FILING DATE GRANTED

A filing date has been granted to this application. However, the following parts are missing.

If all missing parts are filed within the period set below, the total amount owed by applicant as a  
☐ large entity, ☒ small entity (verified statement filed), is \$ 60.001. ☐ The statutory basic filing fee is: ☐ missing, ☐ insufficient. Applicant as a ☐ large entity,  
☐ small entity, must submit \$ \_\_\_\_\_ to complete the basic filing fee and MUST ALSO SUBMIT  
THE SURCHARGE AS INDICATED BELOW.2. ☐ Additional claim fees of \$ \_\_\_\_\_ as a ☐ large entity, ☐ small entity, including any required  
multiple dependent claim fee, are required. Applicant must submit the additional claim  
fees or cancel the additional claims for which fees are due. NO SURCHARGE IS REQUIRED  
FOR THIS ITEM.3. ☒ The oath or declaration:☒ is missing.☐ does not cover items omitted at the time of execution.An oath or declaration in compliance with 37 CFR 1.63, identifying the application by the  
above Serial Number and Filing Date is required. A SURCHARGE MUST ALSO BE  
SUBMITTED AS INDICATED BELOW.4. ☐ The oath or declaration does not identify the application to which it applies. An oath or  
declaration in compliance with 37 CFR 1.63 identifying the application by the above  
Serial Number and Filing Date is required. A SURCHARGE MUST ALSO BE SUBMITTED  
AS INDICATED BELOW.5. ☐ The signature to the oath or declaration is: ☐ missing; ☐ a reproduction; ☐ by a person  
other than the inventor or a person qualified under 37 CFR 1.42, 1.43, or 1.47. A properly  
signed oath or declaration in compliance with 37 CFR 1.63, identifying the application by  
the above Serial Number and Filing Date is required. A SURCHARGE MUST ALSO BE  
SUBMITTED AS INDICATED BELOW.6. ☐ The signature of the following joint inventor(s) is missing from the oath or declaration:  
\_\_\_\_\_. Applicant(s) should provide, if possible an oath or declaration  
signed by the omitted inventor(s), identifying this application by the above Serial Number  
and Filing Date. A SURCHARGE MUST ALSO BE SUBMITTED AS INDICATED  
BELOW.7. ☐ The application was filed in a language other than English. Applicant must file a verified  
English translation of the application and a fee of \$26.00 under 37 CFR 1.17(k), unless this  
fee has already been paid NO SURCHARGE UNDER 37 CFR 1.16(e) IS REQUIRED FOR  
THIS ITEM.8. ☐ A \$20.00 processing fee is required for returned checks. (37 CFR 1.21(m)).9. ☐ Your filing receipt was mailed in error because check was returned.10. ☐ Other:A Serial Number and Filing Date have been assigned to this application. However, to avoid  
abandonment under 37 CFR 1.53(d), the missing parts and fees identified above in items 1 and  
3-6 must be timely provided ALONG WITH THE PAYMENT OF A SURCHARGE OF \$110.00/20.00  
for large entities or \$26.00 for small entities who have filed a verified statement claiming such  
status. The surcharge is set forth in 37 CFR 1.16(e). Applicant is given ONE MONTH FROM  
THE DATE OF THIS LETTER, OR TWO MONTHS FROM THE FILING DATE of this  
application, WHICHEVER IS LATER, within which to file all missing parts and pay any fees.  
Extensions of time may be obtained by filing a petition accompanied by the extension fee under  
the provisions of 37 CFR 1.136(a).Direct the response to, and any questions about, this notice to the undersigned, Attention:  
Application Branch.**A copy of this notice MUST be returned with response.**For: Manager, Application Branch  
(703) 557-3254

FORM PTO-1533 (REV. 7-87)

ATTORNEY'S/APPLICANTS COPY

## For Office Use Only

<input type="checkbox"/> 102	<input type="checkbox"/> 202
<input type="checkbox"/> 103	<input type="checkbox"/> 203
<input type="checkbox"/> 104	<input type="checkbox"/> 204
<input type="checkbox"/> 105	<input type="checkbox"/> 205